

charge a deposit account in the amount of \$920.00 to cover this extension of time request also is submitted herewith.

The rejection of Claims 1-15 under 35 U.S.C. § 102(b) as being anticipated by Crowell et al. (US 5,859,482) ("Crowell") is respectfully traversed.

Applicants respectfully submit that Crowell does not describe nor suggest the claimed invention. As discussed below, at least one of the differences between Crowell and the present invention is that Crowell neither describes nor suggests a spacer bar having a notched side and at least one finger projecting outwardly from the notched side wherein the at least one finger is crimpable around a cooling conduit such that upon crimping the at least one finger extends circumferentially around the cooling conduit to the notched side mechanically coupling the spacer bar to the cooling conduit.

Crowell describes a liquid cooled electric motor stator frame (102) that includes a cooling conduit (142). Cooling conduit (142) is arranged in a generally helical configuration and stator frame (102) is cast around cooling conduit (142) such that conduit (142) is embedded within, and integral with, stator frame (102). A plurality of spacer bars (152) provide support for cooling conduit (142) and facilitate maintaining a desired spacing between a plurality of lengths of cooling conduit (142) and between conduit (142) and a stator frame wall.

Claim 1 recites a stator frame for an electric motor that includes a cooling conduit, and "at least one spacer bar comprising a notched side and at least one finger projecting outwardly from said notched side, said at least one finger crimpable around said cooling conduit such that upon crimping said at least one finger extends circumferentially around said cooling conduit to said notched side mechanically coupling said spacer bar to said cooling conduit."

Crowell does not describe nor suggest a stator frame for an electric motor that includes at least one spacer bar having a notched side and at least one finger projecting outwardly from the notched side wherein the at least one finger is crimpable around a cooling

conduit such that upon crimping the at least one finger extends circumferentially around the cooling conduit to the notched side mechanically coupling the spacer bar to the cooling conduit. Rather, Crowell describes a liquid cooled electric motor stator frame that includes a plurality of spacer bars that engage a cooling conduit. Although Crowell describes at column 5, lines 37-38; column 6, lines 46-49; and column 7, lines 8-11 spacer bars that are engaged to a conduit, Crowell does not describe nor suggest a spacer bar having a notched side and at least one finger projecting outwardly from the notched side wherein the at least one finger is crimpable around a cooling conduit such that upon crimping the at least one finger extends circumferentially around the cooling conduit to the notched side mechanically coupling the spacer bar to the cooling conduit. For at least the reasons set forth above, Claim 1 is submitted to be patentable over Crowell.

Claims 2-7 depend, directly or indirectly, from independent Claim 1. When the recitations of Claims 2-7 are considered in combination with the recitations of Claim 1, Applicants submit that dependent Claims 2-7 likewise are patentable over Crowell.

Claim 8 recites an electric motor that includes a cooling conduit, and "at least one spacer bar mechanically coupled to said cooling conduit...said spacer bar comprising a notched side and at least one finger projecting outwardly from said notched side, said at least one finger crimpable around said cooling conduit such that upon crimping said at least one finger extends circumferentially around said cooling conduit to said notched side mechanically coupling said spacer bar to said cooling conduit."

Crowell does not describe nor suggest an electric motor that includes a cooling conduit, and at least one spacer bar mechanically coupled to a cooling conduit, wherein the spacer bar has a notched side and at least one finger projecting outwardly from the notched side, and wherein the at least one finger is crimpable around the cooling conduit such that upon crimping the at least one finger extends circumferentially around the cooling conduit to the notched side mechanically coupling the spacer bar to the cooling conduit.

More specifically, Crowell does not describe nor suggest a spacer bar having a notched side and at least one finger projecting outwardly from the notched side wherein the at

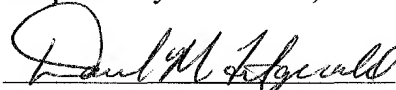
least one finger is crimpable around a cooling conduit such that upon crimping the at least one finger extends circumferentially around the cooling conduit to the notched side. Rather, Crowell describes a liquid cooled electric motor stator frame that includes a plurality of spacer bars that engage a cooling conduit. Although Crowell describes a spacer bar that engages a cooling conduit, Crowell does not describe nor suggest a spacer bar having a notched side and at least one finger projecting outwardly from the notched side wherein the at least one finger is crimpable around a cooling conduit such that upon crimping the at least one finger extends circumferentially around the cooling conduit to the notched side mechanically coupling the spacer bar to the cooling conduit. For at least the reasons set forth above, Claim 8 is submitted to be patentable over Crowell.

Claims 9-15 depend, directly or indirectly, from independent Claim 8. When the recitations of Claims 9-15 are considered in combination with the recitations of Claim 8, Applicants submit that dependent Claims 9-15 likewise are patentable over Crowell.

For at least the reasons set forth above, Applicants respectfully request that the Section 102 rejection of Claims 1-15 be withdrawn.

In view of the foregoing amendment and remarks, all the claims now active in this application are believed to be in condition for allowance. Reconsideration and favorable action is respectfully solicited.

Respectfully Submitted,



Daniel M. Fitzgerald

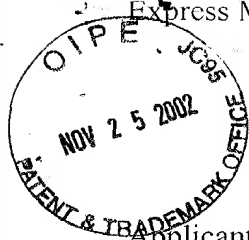
Registration No. 38,880

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Dunlap et al.

Serial No.: 09/682,501

Filed: September 10, 2001

For: MECHANICAL JOINING FOR
WATER-COOLED MOTOR
FRAME

Art Unit: 2834

Examiner: Tamai, K.

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SUBMISSION OF MARKED-UP CLAIMS

Hon. Commissioner for Patents
Box RCE
Washington, D.C. 20231

Submitted herewith are marked up claims in accordance with 37 CFR 1.211(c)(1)(ii).

IN THE CLAIMS

Please cancel Claims 16-24.

1. (once amended) A stator frame for an electric motor, said stator frame comprising:

a substantially cylindrical shaped body section having opposed ends, and a cooling passageway extending through at least a portion of said body section, said cooling passageway comprising a cooling conduit;

an inlet port and an outlet port in flow communication with said cooling passageway;
and

at least one spacer bar comprising a notched side and at least one finger projecting outwardly from said notched side, said [spacer bar configured to] at least one finger crimpable around said cooling conduit such that upon crimping said at least one finger extends circumferentially around said cooling conduit to said notched side mechanically [couple] coupling said spacer bar to said cooling conduit.

8. (once amended) An electric motor, comprising:

a stator frame comprising a substantially cylindrical shaped body section having opposed first and second ends, and a cooling passageway extending through at least a portion of said body section, said frame further comprising an inlet port and an outlet port in flow communication with said cooling passageway, said cooling passageway comprising a cooling conduit;

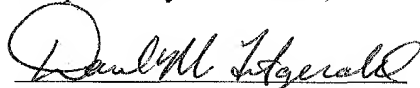
a first end shield secured to said first stator frame end;

a second end shield secured to said second stator frame end; and

at least one spacer bar mechanically coupled to said cooling conduit, said spacer bar comprising a notched side and at least one finger projecting outwardly from said notched side, said at least one finger crimpable around said cooling conduit such that upon crimping said at least one finger extends circumferentially around said cooling conduit to said notched side mechanically [couple] coupling said spacer bar to said cooling conduit.

In view of the foregoing amendment and remarks, all the claims now active in this application are believed to be in condition for allowance. Reconsideration and favorable action is respectfully solicited.

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